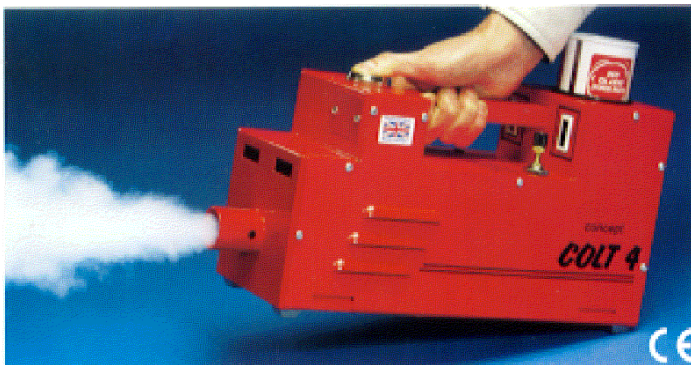
INFORMATION SHEET

"COMET 4 COLT"
PORTABLE SMOKE GENERATING MACHINE

NEED NON-TOXIC WHITE SMOKE?



USE THE NEW COMET 4 COLT MACHINE AS A COST EFFECTIVE MULTI-PURPOSE SMOKE GENERATOR

The machine is	• light and portable (5.5 kgs) • simple and safe to use • operational "off power"
The smoke is	• non toxic – non flammable • controllable and ductable • dense (31m3/min at 1.5m visibility)
Applications	• B.A. training – evaluation exercises • airflow visualisation • leak testing • asbestos removal enclosure testing • theatrical effects

OPERATION: Connect to 240V and fit aerosol of smoke fluid; machine is operable after a 5 min. warm-up period. The fluid is propelled by nitrogen through a heat exchanger, producing a persistant non-toxic white smoke. The machine can be mains operated continuously. Replacement aerosols can be fitted during operation. Partially used aerosols can be removed and kept until later required. The smoke machine features:-

- Push Button, spring-return, On-Off Smoke Control
- Fully adjustable smoke emission control.
- The smoke can be ducted without density loss, (Optional adaptor needed).
- Operation Off-Power – After initial heat-up, the machine will stay warm for approximately 30 mins. after mains disconnection. This will permit up to 2-3 mins. of smoke production. (Read Instruction Booklet).

DURATION: 1 Aerosol can lasts 18 minutes at maximum output. This can be considerably extended if emission control rate is reduced. Maximum output is 31 cubic metres/min. at 1.5 metres visibility.

APPLICATIONS: Fire Drill, Air Flow Patterns, Leak Testing, Theatrical Effects, Draught Assessments, Drains, Sewers, Containers, Luggage Holds, Lorries, Ships, Aircraft, Asbestos Removal.

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USER MANUAL

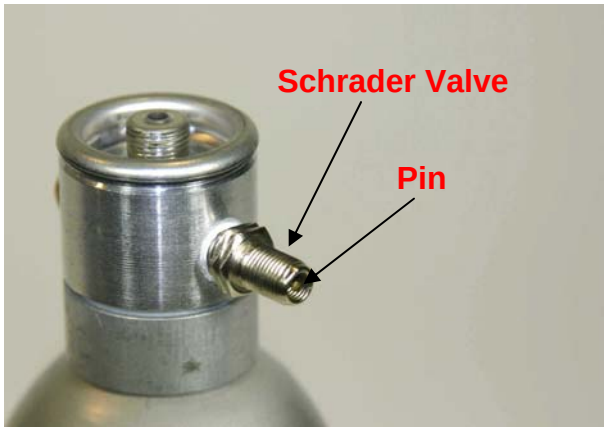
URGENT WARNING INFORMATION

CSS,COLT4 Smoke Generator

SAFE USE OF PRESSURISED CANS – 1 of 3

PLEASE VENT REFILLABLE CANS BEFORE REMOVING THE CAP

The side of the cap of the COLT refillable cans is fitted with a "Schrader" non-return valve very similar to the valve of a car tyre. **Before unscrewing the cap – just in case – carefully depress the pin in the centre of the valve [again just like a car tyre] to vent any residual pressure that may be in the can.**



SAFE USE OF PRESSURISED CANS – 2 of 3

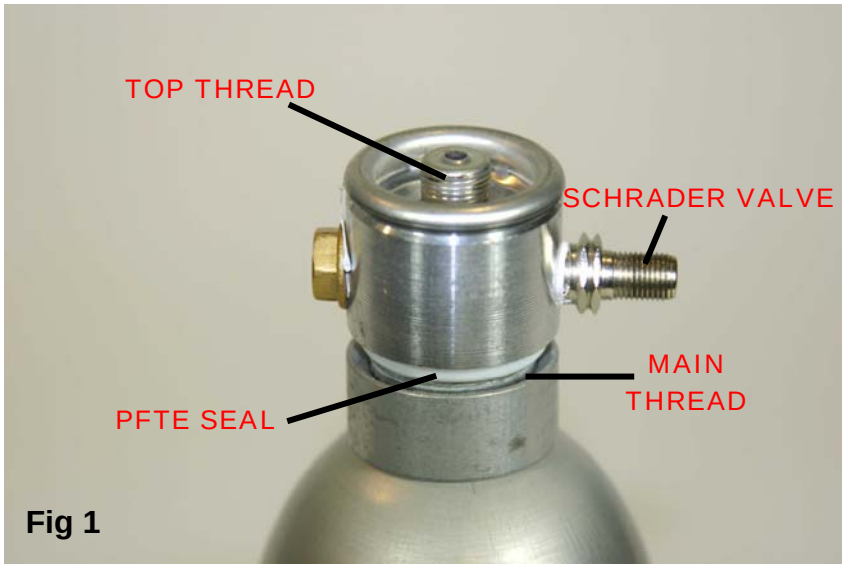


Fig 1

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SAFE USE OF PRESSURISED CANS – 2 of 3

TAKE GREAT CARE WHEN SEALING, PRESSURISING, FITTING AND REMOVING REFILLABLE CANS

The can is sealed by hand-tightening the main [large] thread of the cap against a PTFE washer.
The can is pressurised by connecting the pump to the Schrader valve and pumping to a pressure of about 100 psi
The can is fitted to the smoke generator [and removed] by inverting the pressurised can and CAREFULLY screwing the top thread of the can into the receiver in the generator.

THE CAN MAY STILL RETAIN PRESSURE WHEN IT IS REMOVED. IF THE WRONG THREAD – THE MAIN THREAD [see Fig 1] - IS UNSCREWED WHEN THE CAN IS REMOVED THE RESIDUAL PRESSURE IN THE CAN MAY CAUSE IT TO PROPEL ITSELF OUT OF THE GENERATOR WITH SOME FORCE, AND DISPEL ANY REMAINING SMOKE LIQUID.

TAKE GREAT CARE TO ENSURE THAT THE MAIN THREAD IS TIGHT ENOUGH THAT IT DOES NOT BECOME UNSCREWED IN PREFERENCE TO THE TOP THREAD WHEN REMOVING THE CAN FROM THE GENERATOR

TAKE GREAT CARE TO ENSURE THAT THE TOP THREAD IS CLEAN AND CORRECTLY SEATED IN THE RECEIVER OF THE GENERATOR WHEN FITTING. IF THIS THREAD BINDS, OR IS CROSS-THREADED, THE MAIN THREAD MAY UNSCREW WHEN THE CAN IS REMOVED WITH UNDESIRABLE RESULTS

PLEASE BE CAREFUL WHEN HANDLING PRESSURE VESSELS. SAFE OPERATION IS THE USER'S RESPONSIBILITY

SAFE USE OF PRESSURISED CANS – 3 of 3

AEROSOL CANS ARE PRESSURE VESSELS

Normal precautions should be observed regarding the storage and use of aerosols i.e.: Protect from sunlight and do not expose to temperatures exceeding 50ºC. Do not pierce or burn even after use. Do not spray on a naked flame or any incandescent material. Store aerosols with valve downwards.

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